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# TORREYA

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No. 7

## THE FLORA OF THE TOWN OF SOUTHDOLD, LONG ISLAND AND GARDINER'S ISLAND

BY STEWART H. BURNHAM AND ROY A. LATHAM

### FIRST SUPPLEMENTARY LIST

The preliminary flora was published in *Torreyia* 14: 201-225. Nov. 1914 and 229-254. Dec. 1914. The majority of the enumerated plants were collected in 1915. Mr. Frank Dobbin of Shushan, N. Y., also visited Orient Aug. 10-15, 1915, and spent considerable of the time collecting.

The territory of the region included in this flora lies wholly in the glaciated region. Along the shore of Long Island Sound is the obscure inner moraine of the Wisconsin ice sheet; and from this moraine is an outwash of thin deposits forming sandy plains over the older Pleistocene formation which shows through and in places controls the topography. Some of the beaches and many of the swamps and marshes belong to the Recent epoch. Gardiner's Island lies between the inner and outer moraines of the Wisconsin ice sheet: and being of more rugged topography "seems to have encouraged a more extensive re-working of the" older Pleistocene "deposits by the Wisconsin ice and a greater deposition of" the till sheet or ground moraine. ("The Geology of Long Island," by Myron L. Fuller, U. S. Geol. Survey Professional Paper 82: Washington. 1914.)

The authors are greatly indebted to many specialists, who have made it possible to publish the following catalogue of species.

### INSECT GALLS\*

*Andricus cornigerus* O. S.—Horned Knot Oak Gall.

*Asphondylia globosus* O. S.—On stems of *Helianthus divaricatus*.

\* The majority of these galls were named by Dr. E. P. Felt, state entomologist of the State of New York.

[No. 6, Vol. 17 of *TORREYA*, comprising pp. 91-110, was issued 13 June, 1917.]

*Diastrophus Potentillae* Bass.—Cinquefoil Axil Gall; on stems of *Potentilla canadensis*.

*Rhopalomyia Solidaginis* Loew—Goldenrod Bunch Gall.

*Trypeta Solidaginis* Fitch—Goldenrod Ball Gall.

## THALLOPHYTA

### EUTHALLOPHYTA

#### EUPHYCEAE\*

*Botrydium granulatum* (L.) Grev.—On wet earth.

*Griffithsia tenuis* Ag.—Long Island Sound.

*Polysiphonia violacea* (Roth) Grev.—On rocks in the Sound.

*Ralfsia verrucosa* (Aresch.) J. Ag.—On rocks in shallow water.

*Rhizoclonium hieroglyphicum* (Ag.) Kütz.—About roots of bushes in a fresh water swamp.

*Rivularia atra* Roth—On rocks at the water's edge.

*Ulothrix implexa* Kütz.—On rocks at mid-tide mark, Orient bay.

## FUNGI

### SCHIZOMYCETES

*Bacillus tracheiphilus* Erw. Smith—On *Cucumis sativus*; determined by Mr. F. V. Rand.

#### EUMYCETES

*Phytophthora Phaseoli* Thaxt.—On *Phaseolus lunatus*; determined by Mr. Rand.

*Plasmopara cubensis* (B. & C.) Humphrey—On *Cucumis sativus*; determined by Mr. Rand.

#### ASCOMYCETES (EXCLUDING PYRENOMYCETES)

*Chlorosplenium chlora* (Schw.) Mass.—On decayed wood of *Quercus coccinea*; determined by Dr. F. J. Seaver.

*Dasyscypha Ellisiana* (Rehm) Sacc.—On bark of living *Pinus rigida*; determined by Dr. Seaver.

*Lecanidion atratum* (Hedw.) Rabenh.—On bare wood of *Toxylon pomiferum*; determined by Dr. C. E. Fairman.

*Melittosporium hysterinum* (Fr.) Gill.—On bare wood of *Juniperus virginiana*; determined by Dr. Fairman.

*Pseudopeziza Medicaginis* (Lib.) Sacc.—On leaves of *Medicago sativa*; determined by Dr. Fairman.

*Taphrina Quercus* (Cke.) Sacc.—On leaves of *Quercus velutina*; determined by Dr. H. D. House.

#### ASCOMYCETES (PYRENOMYCETES)†

*Anthostomella sepiabilis* (B. & C.) Sacc.—On old stems of *Smilax rotundifolia*.

*Botryosphaeria Ribis* Grossen. & Duggar—On old stems of cultivated *Grossularia*.

\* The algae were determined by Dr. M. A. Howe and are preserved in the Herbarium of the New York Botanical Garden.

† Unless otherwise stated, the *Pyrenomycetes* were determined by Dr. C. E. Fairman.

- Cucurbitaria elongata* (Fr.) Grev.—On old twigs of *Robinia Pseudo-Acacia*; also the macropycnidial stage, *Hendersonia Robiniae* West: determined by Dr. House.
- Diaporthe ocularia* (C. & E.) Sacc.—On twigs and branches of *Ilex verticillata*.
- D. rhoina* (C. & E.) E. & E.—On twigs and branches of *Rhus copallina*.
- Diatrypella Cephalanthi* (Schw.) Sacc.—On twigs of *Cephalanthus occidentalis*.
- Dothidea ribesia* (Pers.) Fr.—On old stems of cultivated *Grossularia*.
- Eutypella deusta* (E. & E.) E. & E.—On old wood of oak; determined by Dr. House.
- E. prunastri* (Pers.) Sacc.—On twigs and branches of *Padus virginiana*.
- Fimelaria fimicola* (Roberge) Griffiths & Seaver—On old paper.
- Glioniopsis Cookeana* (Ger.) Sacc.—On sumac, *Myrica carolinensis* and *Xolisma ligustrina*; determined by Dr. House.
- G. fibriseda* (Ger.) Sacc.—On twigs of *Acer rubrum*.
- G. Lonicerae* (Phill. & Hark.) Berl. & Vogl.—On twigs of *Lonicera japonica*.
- Hypoderma Smilacis* (Schw.) Rehm—On dead stems of *Smilax rotundifolia*.
- Hypoxylon cohaerens* (Pers.) Fr.—On branches of *Fagus grandiflora* at Greenport.
- H. smilacicolum* Howe—On stems of *Smilax rotundifolia* at Greenport.
- Hysteriographium Vaccinii** (Schw.) Fairman, n. comb.—On twigs of *Vaccinium atrococcum* at Greenport. In Saccardo's *Sylloge Fungorum* this is described as *Hysterium Vaccinii* Schw.
- H. vulvatum* (Schw.) Sacc.—On *Quercus velutina*; determined by Dr. House.
- Laestadia polystigma* (E. & E.) Sacc.—On leaves of *Quercus velutina*.
- Lophiotrema praemorsum* (Lasch) Sacc.—On old stems of *Brassica oleracea gemmifera* (Brussels sprouts).
- Lophodermium arundinaceum* (Schr.) Chev.—On *Ammophila arenaria*. Dr. Fairman says, "I have found *L. arundinaceum* in America on grain stems but have no specimens on *Ammophila*: and have no knowledge of its ever having been found here on this host."
- Mazzantia sepium* Sacc. & Penz.—On stems of *Convolvulus sepium*. Dr. Fairman says, "I have never found it in America; although I have specimens from London, Canada."
- Myiocopron Smilacis* (DeNot.) Sacc.—On twigs of *Smilax rotundifolia* at Greenport.
- Nummularia microplaca* (B. & C.) Cke.—On dead branches of *Sassafras Sassafras*. Dr. Fairman says, "Reprinted in this country from the South, Ohio and Virginia."
- Phyllachora Cyperi* Rehm—On *Cyperus esculentus*; determined by Dr. House.
- Physalospora Potentillae* Rostr.—On stems and galls of *Potentilla canadensis*. Dr. Fairman says the type of this fungus was found on *Potentilla maculata* in Greenland: and that "it has not been found in this country by anyone before so far as I know. The best specimens of your collection are on the galls,"
- Diastrophus Potentillae*.
- Pleospora herbarum* (Pers.) Rabenh.—On stems of *Allium Cepa*, *Asparagus officinalis*, *Vagnera stellata*, *Moehringia lateriflora*, *Silene caroliniana* and *Glaucium Glaucium*.
- P. Salsolae* Fekl.—On stems of *Salicornia ambigua* and *Salsola Kali*. Dr. Fairman says, "I have never had it from this country: but Ellis and Everhart list it on *Salicornia herbacea*, California (Harkness)."
- Rhytisma Ilicis-canadensis* Schw.—On leaves of *Ilex verticillata* at Southold; determined by Dr. House.

*Valsa Liquidambaris* Schw.—On branches of *Hamamelis virginiana*; determined by Dr. House.

*V. pauperata* C. & E.—On twigs and branches of *Acer rubrum* at Greenport.

#### HYPOMYCETES

*Cercospora Teucrii* E. & K.—“Orient Point, on living leaves of *Teucrium canadense*.” N. Y. State Mus. Bull. 179: 26. 1915.

*Cladosporium Typhae* Schw.—On old leaves and stems of *Typha latifolia*; determined by Dr. Fairman.

*Trichoderma lignorum* (Tode) Harz.—On bare wood of *Quercus velutina*; determined by Dr. Fairman.

#### MELANCONIALES

*Pestalozzia conigena* Lev.—On cones of *Thuja occidentalis*; determined by Dr. Fairman.

#### SPHAEROPSIDEAE\*

*Cytospora leucostoma* (Pers.) Sacc.—On twigs of *Amygdalus Persica*.

*Diplodia hyalospora* C. & E.—On old stems of *Chenopodium album*.

*D. Maydis* (Berk.) Sacc.—On old stalks of *Zea Mays*.

*Diplodina Atriplicis* Vestgr.—On old stems and withered leaves of *Atriplex hastata*. Dr. Fairman says when this fungus occurs on stems, it is called *Diplodina Atriplicis*; when on leaves, *Ascochyta Atriplicis* Died. On your plants “we have fungi on both, so that it is as you please what you say, *Diplodina* or *Ascochyta*, at present. I have referred yours to *Diplodina* because most prominent on the stems.”

*Labrella nitida* Schw.—On stems of *Polygonatum commutatum*.

*Leptostroma filicinum* Fr.—On old stipes of *Athyrium Filix-foemina*.

*L. virgullorum* Sacc.—On stems of *Aralia nudicaulis*.

*Leptostromella hysterioides* (Fr.) Sacc.—Determined by Dr. House.

*Leptothyrium litigiosum* (Desm.) Sacc.—On *Osmunda cinnamomea*; determined by Dr. House.

*L. Pomi* (Mont. & Fr.) Sacc.—On the skin of the fruit of *Malus Malus*.

*Macrophoma pulchrispora* (Pk. & Clint.) Sacc.—On stems of *Persicaria pennsylvanica*.

*Phlyctaena arcuata* Berk.—On dead stems of *Arctium minus*.

*P. complanata* (B. & C.) Sacc.—On dead stems of *Tiniaria Convolvulus*.

*Phoma Cydoniae* Sacc. & Schulz.—On old fruit of *Cydonia vulgaris* (Quince).

*P. longipes* B. & C.—“Orient Point on *Morus alba*.” The plant reported in the preliminary list to *Phoma moricola* Sacc. should be referred to this species. N. Y. State Mus. Bull. 188: 37. 1916.

*P. media* E. & E.—On old stems and branches of *Asparagus officinalis*.

*P. nebulosa* (Pers.) Sacc.—On dead stems of *Lepidium virginicum*.

*P. septicola* (Kickx.) Sacc.—On branches of rambler rose.

*P. strobiligena* Desm.—On cones of *Thuja occidentalis*.

*P. verbascicola* (Schw.) Cke.—On stems of *Verbascum Thapsus*.

*Phomopsis cryptica* (Nits.) Trav.—On twigs of *Lonicera japonica*.

\* Unless otherwise stated, the *Sphaeropsidae* were determined by Dr. C. E. Fairman.

- P. occidentalis* Sacc., var. *irregularis* Trav.—On twigs and branches of *Gleditschia triacanthos*.
- P. vepris* (Nits.) Trav.—On stems of *Rubus procumbens*.
- Phyllosticta Baccharidis* Dearness & House—"On living leaves of *Baccharis halimifolia*, Orient Point." This species is described in N. Y. State Mus. Bull. 179: 29. 1915; and the type is in the herbarium of the N. Y. State Museum.
- P. orobella* Sacc.—"On languishing leaves of *Lathyrus maritimus*, Orient Point, New to America." N. Y. State Mus. Bull. 179: 30. 1915.
- Rhabdospora Lonicerae* (C. & E.) Sacc.—On dead twigs of *Lonicera japonica*. Dr. Fairman says, "a rare find. It was originally found by Ellis on *Lonicera* in New Jersey and sent by him to Cooke who called it *Cryptosporium Lonicerae* C. & E. in *Grevillea* 6: 83. March 1878. It has curved hyaline spores and really seems to be a good *Cryptosporium*. I do not think Ellis ever found it again."
- R. subgrisea* Pk.—On stems of *Solidago sempervirens*; determined by Dr. House.
- Septoria Caryophylli* Scalia—On leaves of *Dianthus caryophyllus*. Dr. Fairman says, "I presume this has been called *S. Dianthi*: but it agrees better with the above."
- S. graminum* Desm.—On leaves of *Dactylis glomerata*; determined by Dr. House.
- Sphaeronaema acerinum* Pk.—On dead bark and twigs of *Acer rubrum*.
- Sphaeropsis Arctostaphylii* (Vize) Sacc.—On bare wood.
- S. Celastrina* Pk.—On *Celastrus scandens*.
- S. Juniperi* Pk.—On *Juniperus virginiana*; determined by Dr. House.
- S. rubicola* C. & E.—On stems of *Rubus procumbens*.
- S. sepulta* E. & E.—On dead twigs of *Morus alba* at Orient Point. N. Y. State Mus. Bull. 188: 53. 1916.
- Vermicularia petiolicola* P. Brun—On petioles of *Geranium maculatum*.

## BASIDIOMYCETES

## USTILAGINACEAE

- Urocystis Cepulae* Frost—On *Allium Cepa*; determined by Dr. G. P. Clinton.
- Ustilago Crus-galli* Tracy & Earle—On *Echinochloa Crus-galli*; determined by Dr. Clinton.
- U. Rabenhorstiana* Kühn—On *Syntherisma sanguinale*; determined by Dr. Clinton.

## MELAMPSORACEAE\*

- Melampsora Medusae* Thüm.—On leaves of *Populus tremuloides*.

## COLEOSPORIACEAE

- Coleosporium delicatulum* (A. & K.) H. & L.—Southold on leaves of *Euthamia tenuifolia*.
- C. Helianthi* (Schw.) Arth.—On leaves of *Helianthus divaricatus*.

\* Unless otherwise stated the Rusts were determined by Dr. J. C. Arthur and are preserved in the Herbarium of Dr. Arthur at Purdue University, Lafayette, Indiana. The authors are indebted to Dr. Arthur, who has read the manuscript of the Rusts.

## PUCCINIACEAE

- Gymnosporangium globosum* Farl.—Greenport on *Crataegus chrysocarpa*.  
*Kuehneola Uredinis* (Lk.) Arth.—On leaves of *Rubus alleghaniensis*.  
*Phragmidium americanum* Diet.—On leaves of *Rosa blanda*.  
*P. Potentillae-canadensis* Diet.—On leaves of *Potentilla canadensis*.  
*P. Rosae-setigeræ* Diet.—On leaves of *Rosa carolina*.  
*Polythelis Thalictri* (Chev.) Arth.—On leaves of *Thalictrum revolutum*. (*Puccinia Thalictri* Chev.)  
*Puccinia Acetosæ* (Schum.) Körn.—On leaves of *Rumex Acetosella*. Dr. Arthur says, "this rust has been found at Woods Hole, Massachusetts, in South Carolina and Florida. Your locality making the fourth one."  
*P. angustata* Pk.—Southold and Greenport on *Scirpus cyperinus* and *S. pedicellatus*.  
*P. canaliculata* (Schw.) Lagerh.—On *Cyperus esculentus*, the telial stage; determined by Dr. House.  
*P. Caricis-strictæ* Diet.—Southold on *Carex stricta*, the amphisporeal stage.  
*P. Cichorii* (DC.) Bell—On leaves of *Cichorium Intybus*.  
*P. Clematidis* (DC.) Lagerh.—On leaves of *Agropyron repens* and *Hordeum sativum*. (*Puccinia Agropyri* E. & E.; *P. agropyrina* Erikss.)  
*P. Convolvuli* (Pers.) Cast.—On leaves of *Convolvulus sepium*.  
*P. Eleocharidis* Arth.—On *Eleocharis tenuis*.  
*P. epiphylla* (L.) Wettst.—On *Poa pratensis*. (*Puccinia poarum* Niessl.)  
*P. extensicola* Plowr.—On *Carex hormathodes*, *C. scoparia*, *C. straminea*, *C. vulpinoidea* and *Dulichium arundinaceum*. (*Puccinia Dulichii* Sydow; *P. vulpinoidis* Diet. & Holw.)  
*P. fraxinata* (Lk.) Arth.—On *Spartina patens*. Dr. Arthur says we have this rust "on the same host from Delaware and New Jersey: but not before from any point in New York."  
*P. Grossulariæ* (Schum.) Lagerh.—Greenport on *Carex debilis*. (*Puccinia uniporula* Orton.)  
*P. Impatiensis* (Schw.) Arth.—Gardiner's Island on *Agrostis alba* and *Elymus striatus*. (*Puccinia perminuta* Arth.)  
*P. Phlei-pratensis* Erikss. & Henn.—On *Phleum pratense*.  
*P. poculiformis* (Jacq.) Wettst.—On *Agrostis alba* and *Dactylis glomerata*.  
*Puccinia Polygoni-amphibii* Pers.—On leaves of *Persicaria pennsylvanica*, *P. punctata*, *Tiniaria scandens* and *Tovara virginiana*.  
*P. Prenanthis-racemosæ* Sydow—Greenport on leaves of *Nabalus trifoliolatus*.  
*P. Proserpinacæ* Farl.—Greenport on leaves of *Proserpinaca palustris*. Dr. Arthur says, "known only from Massachusetts, Illinois and Wisconsin."  
*P. Rhamni* (Pers.) Wettst.—On *Avena sativa*.  
*P. Smilacis* Schw.—Southold on *Smilax glauca*.  
*P. Xanthii* Schw.—On *Xanthium commune*.  
*Uredinopsis mirabilis* (Pk.) Magn.—Gardiner's Island on *Onoclea sensibilis*.  
*Uromyces fallens* (Desmaz.) Kern—On *Trifolium pratense*. (*Nigredo fallens* (Desmaz.) Arth.)  
*U. Hyperici-frondosi* (Schw.) Arth.—Greenport on *Triadenum virginicum*. (*Nigredo Hyperici-frondosi* (Schw.) Arth.)  
*U. Junci-effusi* Sydow—Greenport on *Juncus effusus*. (*Nigredo Junci-effusi* (Sydow) Arth.)

- U. minutus* Diet.—On *Carex virescens*. (*Nigredo minuta* (Diet.) Arth.)  
*U. pedatatus* (Schw.) J. Sheldon—Southold on *Andropogon virginicus*. (*Nigredo pedatata* (Schw.) Arth.)  
*U. perigynius* Halst.—Greenport on *Carex intumescens*. (*Nigredo perigynia* Halst.) Arth.  
*U. Polygoni* (Pers.) Fckl.—On leaves of *Polygonum aviculare*. (*Nigredo Polygoni* (Pers.) Arth.)  
*U. Scirpi* (Cast.) Burr.—On *Scirpus robustus*.  
*U. Trifolii* (Hedw. f.) Lev.—On leaves of *Trifolium hybridum* and *T. repens*. (*Nigredo Trifolii* (Hedw. f.) Arth.)  
*U. uniporulus* Kern—On *Carex virescens*. (*Nigredo uniporula* (Kern) Arth.)

## TREMELLACEAE

- Ulocolla foliacea* (Pers.) Bref.—On dead bark of *Quercus velutina*; determined by Dr. C. G. Lloyd.

## DACRYOMYCETACEAE

- Dacryomyces deliquescens* (Bull.) Duby—On rotten wood of oak; determined by Dr. Lloyd.

## THELEPHORACEAE

- Corticium incarnatum* (Pers.) Fr.—On branches of *Sambucus canadensis*; determined by Dr. E. A. Burt.  
*Stereum albo-badium* Schw.—On old stems of *Brassica oleracea gemmifera* (Brussels sprouts); determined by Dr. Burt, who says, "a species I have seen heretofore on woody stems only."  
*S. fasciatum* Schw.—Greenport on dead trunk of *Quercus velutina*; determined by Dr. Lloyd. *Stereum versicolor* Fr. previously listed belongs here.  
*Tremellodendron pallidum* (Schw.) Burt—On earth in low woods at Greenport; determined by Dr. Lloyd. (*Thelephora Schweinitzii* Pk.)

## HYDNACEAE

- Hydnum imbricatum* L.—Moist soil in woods at Greenport; determined by Dr. Lloyd.

## POLYPORACEAE\*

- Boletus Frostii* Russell—Rare in rich earth in open woods, Greenport and Gardiner's Island.  
*Cyclomyces Greeni* Berk.—On earth in rich woods, Greenport.  
*Merulius Corium* (Pers.) Fr.—On old bark of *Myrica carolinensis*.  
*Polyporus adustus* (Willd.) Fr.—On old wood of *Quercus velutina* at Greenport.  
*P. albellus* Pk.—On old wood.  
*P. amygdalinus* Berk.—Greenport on stump of *Quercus velutina*. Dr. Lloyd says, "the second specimen I have seen, a very interesting find."  
*P. dichrous* Fr.—On stumps of *Juniperus virginiana*.

\* Except the *Boletus*, the Polypores were determined by Dr. C. G. Lloyd and are preserved in the Herbarium of the Lloyd Museum and Library, Cincinnati, Ohio.



- P. squamosus* (Huds.) Fr.—On living trunk of *Salix nigra*, Gardiner's Island.  
*Polystictus cinnamomeus* (Jacq.) Sacc.—Rich soil in oak woods at Greenport.  
*Poria medulae-panus* (Pers.) Fr.—On spruce timber in a cellar.  
*P. pinea* Pk.—On old log of *Pinus Strobus*.  
*P. radula* (Pers.) Fr.—On *Quercus velutina* and rotten wood of *Sassafras Sassafras*.

## AGARICACEAE

- Panus levis* Berk.—On oak wood in a shed; determined by Dr. Lloyd, who says, "this is an American plant that is very rarely received by me. The spores of *Panus levis* are 4-6 x 10-12 $\mu$  and slightly arcuate."  
*Pleurotus striatulus* Fr.—On old wood; determined by Dr. Lloyd.

## GASTEROMYCETES

- Calatoma circumscissum* (B. & C.) Morg.—Sandy soil in open cedar woods; determined by Dr. Lloyd.  
*Lycoperdon umbrinum* Pers.—Sandy soil in open woods; determined by Dr. Lloyd.  
*(Lycoperdon glabellum* Pk.)  
*Sphaerobolus stellatus* Tode—On old wood of *Vitis bicolor*; determined by Dr. Fairman.

## LICHENES\*

- Biatora rivulosa* (Ach.) Fr.—On bark of oak at Greenport.  
*B. uliginosa* (Schr.) Fr.—In open places on light bare soil.  
*Cladonia macilenta styracella* (Ach.) Wainio—On old rotten pine log in sandy woods.  
*C. ochrochlora ceratodes* Fkl.—On sandy soil in open woods.  
*Cyrtidula rhoica* Minks—On bark of sumac.  
*Lecanora* (§ *Ochrolechia*) *pallescens* (L.) Schaer.—On bark of large oak trees in woods at Greenport.  
*Lobularia pulmonaria* (L.) Hoffm.—On trunks of trees in woods at Greenport.  
*(Sticta pulmonaria* (L.) Ach.)  
*Peltigera polydactyla* (Neck.) Hoffm.—About mossy roots of trees in moist woods at Greenport.  
*P. scutata* (Dicks.) Leight.—Mossy banks in woods at Greenport; determined by Miss Mary F. Miller.  
*Physcia obscura virella* (Ach.) Leight.—On bark of oak in woods at Greenport.

## HEPATICAET†

- Asterella tenella* (L.) Bv.—On heavy soil along roadside in cedar woods.  
*Cephalozia fluitans* (Nees) Spruce—Southold about base of trees in a sandy swamp; determined by Dr. A. W. Evans.  
*C. Francisci* (Hook.) Dum.—On clean moist sand, at edge of a cranberry bog at the lake on Horton Point, Southold, forming beautiful green carpets 6 x 10 feet; determined by Dr. G. H. Conklin and Dr. Evans. Dr. Conklin says this species "has been found only a few times in North America. This the fourth or fifth

\* Unless otherwise stated, the Lichens were determined by Mr. G. K. Merrill, Rockland, Maine.

† Unless otherwise stated, the Hepatics were determined by Dr. G. H. Conklin, Superior, Wisconsin: and are preserved in the Hepatic Herbarium of The Sullivant Moss Society.

time." Dr. Evans in his "Notes on North American Hepaticae. VI" in *Bryol.* 18: 83. Sept. 1915 says that the geographical distribution of *Cephalozia Francisci* "in North America is so incompletely known that the report of the following new stations seem justifiable." A station on Cape Breton Island, Nova Scotia: and "Southold and Orient Point, Long Island, New York, R. Latham," are reported. "The last two stations which represents a marked extension of the known range to the southward," having been found previously in Maine and New Hampshire," are of especial interest and indicate that the plant ought to be looked for in eastern Connecticut and Rhode Island." This rare hepatic has only been found at Horton Point, Southold: but has never been found at Orient Point, as stated above!

*C. macrostachya* Kaal.—Southold about base of bushes in a sandy swamp; determined by Dr. Evans.

*C. media* Lindb.—On old logs in moist woods at Greenport.

*Fossombronia foveolata* Lindb.—Sandy swamps, Horton Point; and dry soil in cedar woods, Orient, fruiting in November; determined by Dr. Evans and Dr. Conklin.

*Lophocolea minor* Nees—On a mossy rock in a swamp.

*Notothylas orbicularis* (Schw.) Sull.—Muddy bottom of a pasture pond at Orient.

*Odontoschisma Sphagni* (Dicks.) Dumort.—Edge of woodland swamp at Orient; determined by Miss Annie Lorenz.

*Pallavicinia Lyellii* (Hook.) S. F. Gray—About mossy base of trees in moist woods and swamps, Greenport and Southold.

*Pellia Fabroniana* Raddi—Edge of stream in woods at Greenport. Dr. Conklin says "this is a rare species."

*Riccardia pinguis* (L.) S. F. Gray—Among rushes on wet sandy shore of lake at Horton Point: and among grasses in brackish marsh at Orient; determined by Dr. Conklin and Dr. Evans.

#### MUSCI

*Amblystegium Kochii* B. & S.—On old leather and wood in a shady place; determined by Dr. A. J. Grout.

*Fissidens minutulus* Sull.—Small pieces of sandstone, under a shady bank, edge of lake at Horton Point; determined by Mr. G. B. Kaiser.

*Fontinalis dalecarlica* B. & S.—Trunks of bushes in wet places; determined by Mr. Kaiser.

*Hypnum curvifolium* Hedw.—All traces of this moss has disappeared where it was found in December 1909. This species should probably be referred to *Hypnum imponens* Hedw.

*Plagiothecium Roeseanum* (Hampe) B. & S.—Wet shady place; determined by Dr. Grout.

*Pogonatum brevicaule* (Brid.) Bv.—Wet stream bank at Greenport; determined by Mr. Kaiser.

*Polytrichum commune uliginosum* Hueb.—Dry soil at Southold; determined by Mr. Kaiser.

*Sphagnum compactum* DC.—Sandy bog at Southold; determined by Dr. A. L. Andrews.

*S. subsecundum* Nees—The form called *S. inundatum* Russ. in a sandy bog at Southold; determined by Dr. Andrews.

## PTERIDOPHYTA

## POLYPODIACEAE

*Dryopteris hexagonoptera* (Mx.) C. Chr.—Moist woods, Gardiner's Island.

## LYCOPODIACEAE

*Lycopodium adpressum* (Chapm.) Lloyd & Underw.—Orient in a brackish meadow; the first club-moss found at Orient. No *Lycopodiums* have been found on Gardiner's Island.

## ANGIOSPERMAE

## MONOCOTYLEDONES

## ZANNICHELLIACEAE

*Potamogeton diversifolius* Raf.—In the lake on Horton Point.

*Zannichellia palustris* L.—Shallow brackish stream, Gardiner's Island.

## GRAMINEAE

*Agrostis alba* L.—The var. *aristata* Gray, collected by Mr. Frank Dobbin in woods at Greenport; determined by Mrs. Agnes Chase.

*Andropogon virginicus* L.—Moist sandy soil, Southold; determined by Mrs. Chase.

*Elymus halophilus* Bicknell—Salt marshes. The very light glaucous green plants grow in tufts: and are never as tall as the other wild ryes.

*E. striatus* Willd.—Rocky woods, Gardiner's Island; determined by Mr. Dobbin.

*Lolium multiflorum* Lam.—Waste and cultivated grounds, rare at Orient; determined by Mrs. Chase.

*Panicum flexile* (Gattinger) Scribn.—Dry sandy soil, Southold; determined by Mrs. Chase.

*P. Lindheimeri* Nash—Dry ground, Mattituck; determined by Mrs. Chase.

*P. virgatum* L.—The var. *cubense* Griseb., collected by Mr. Dobbin at Orient; determined by Mrs. Chase.

*Paspalum pubescens* Muhl.—Dry pastures and cultivated fields; determined by Mrs. Chase.

*Syntherisma sanguinalis* (L.) Dulac—Common in cultivated fields and waste places; often known by the name of "Flat-grass."

## CYPERACEAE

*Carex debilis* Mx.—Greenport, the host of *Puccinia Grossulariae*.

*C. laxiflora* Lam.—Woodlands.

*Cyperus Grayii* Torr.—Abundant on the sands at Horton Point; also in sandy woods at Mattituck. "Orient Point": in the State Herbarium are two specimens collected on Long Island many years ago. "New Jersey is usually given as the northern range of this species." N. Y. State Mus. Bull. 176: 44. 1915.

*C. Houghtoni* Torr.—The specimens, previously reported from Orient, are probably referable to *Cyperus Grayii* Torr.

## ORCHIDACEAE

*Blephariglottis psycodes* (L.) Rydb.—Rich woods, Gardiner's Island; determined by Mr. Dobbin.

*Gymnadeniopsis clavellata* (Mx.) Rydb.—Moist woods, Gardiner's Island; determined by Mr. Dobbin.

*Ibidium ochroleucum* (Rydb.) House—Dry hillsides, East Marion. The leaves are often half an inch wide: and the flowers, cream-colored and very fragrant. This species has been combined with *Ibidium cernuum* (L.) House: but the East Marion plants and those found in the Flora of the Lake George region, New York, appear quite distinct.

*Liparis liliifolia* (L.) L. C. Rich.—Swampy wood at Orient, very rare; collected by Mr. Vinton Richard.

*Pogonia ophioglossoides* (L.) Ker—In a brackish meadow at Orient, rare.

#### DICOTYLEDONES

##### SALICACEAE

*Salix caprea* L.—The var. *pendula* Hort. "Roadsides, Orient Point." N. Y. State Mus. Bull. 176: 44. 1915.

##### ULMACEAE

*Celtis occidentalis* L.—Mr. Dobbin says he saw, Aug. 15, 1915 on Gardiner's Island. trees with trunks two feet in diameter.

##### MORACEAE

*Morus rubra* L.—Two trees, edge of dry woods, near an old pathway, Gardiner's Island; probably introduced; determined by Mr. Dobbin.

##### URTICACEAE

*Urtica urens* L.—Rare in low waste ground, Gardiner's Island.

##### POLYGONACEAE

*Fagopyrum Fagopyrum* (L.) Karst.—Persisting in cultivated ground and waste places.

##### CHENOPODIACEAE

*Dondia linearis* (Ell.) Heller—Salt marshes and beaches.

##### CORRIGIOLACEAE

*Scleranthus annuus* L.—Dry roadside, Greenport.

##### SAXIFRAGACEAE

*Chrysosplenium americanum* Schwein.—Along a muddy ditch in woods, Gardiner's Island; determined by Mr. Dobbin.

##### MALACEAE

*Pyrus communis* L.—Woods and hedges.

##### FABACEAE

*Meibomia canescens* (L.) Ktze.—Edge of dry woods, Gardiner's Island.

*Melilotus officinalis* (L.) Lam.—Rare in fields at Orient.

*Vicia villosa* Roth—Occasional in fields and waste places.

##### GERANIACEAE

*Geranium carolinianum* L.—Orient in a sandy pasture.

*G. molle* L.—Rare in a sandy pasture at Orient.

## POLYGALACEAE

*Polygala ambigua* Nutt.—Dry pastures, Orient and Gardiner's Island.

## ELATINACEAE

*Elatine americana* (Pursh) Arn.—Shallow water of lake at Horton Point; determined by Mr. Percy Wilson.

## VACCINIACEAE

*Vaccinium vicinum* Bicknell—In woods about a spring, Gardiner's Island, fruiting specimens Aug. 15, 1915. These specimens have been compared with the type in the Herbarium of New York Botanical Garden.

## ASCLEPIADACEAE

*Asclepias purpurascens* L.—Moist place in woods, Gardiner's Island.

## BORAGINACEAE

*Lappula virginiana* (L.) Greene—Rich woods, Gardiner's Island; determined by Mr. Dobbin.

*Myosotis laxa* Lehm.—Rare on muddy shores, Gardiner's Island; determined by Mr. Dobbin.

## LABIATAE

*Teucrium littorale* Bicknell—Wet woods, shores and salt marshes, Gardiner's Island and Orient.

## SOLANACEAE

*Datura Tatula* L.—More common at Orient than the white-flowered species, *Datura Stramonium* L., with which *D. Tatula* has been combined; collected by Mr. Dobbin.

## LENTIBULARIACEAE

*Utricularia geminiscapa* Benj.—Shallow water of lake at Horton Point; determined by Dr. J. H. Barnhart. (*Utricularia cleistogama* (Gray) Britton.)

## RUBIACEAE

*Diodia teres* Walt.—Moist pasture at Orient.

## AMBROSIACEAE

*Iva frutescens* L.—Salt marshes at Orient; determined by Mr. Dobbin.

## COMPOSITAE

*Gnaphalium purpureum* L.—Rare in dry woods.

*Helianthus decapetalus* L.—Moist woods at Orient; leaves a little narrower than usual and in whorls of four below.

*Ionactis linariifolius* (L.) Greene—Sandy soil on Long Beach, Orient, rare.

*Mikania scandens* (L.) Willd.—Edge of wet woods, Gardiner's Island; determined in part by Mr. Dobbin.

*Solidago speciosa* Nutt.—Rare in dry woods at Orient. The specimen had entire leaves with ciliolate margins.